#### Vapor Intrusion Health Evaluation

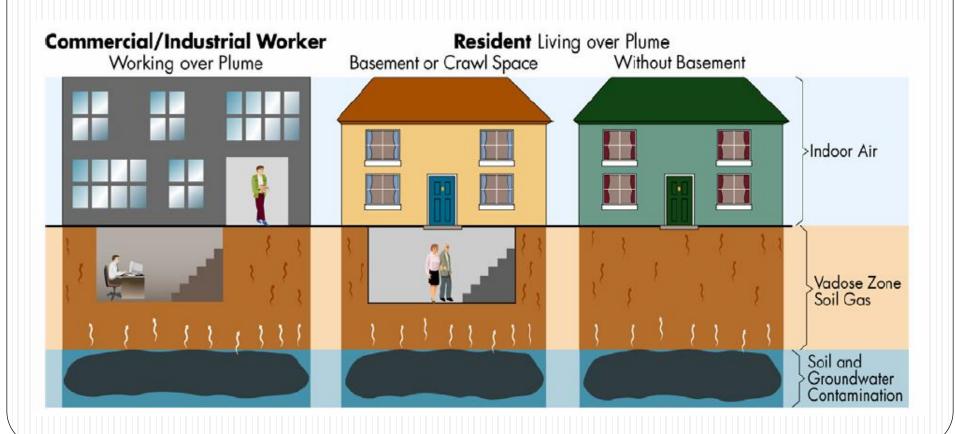
#### HASLC

Neighborhood Meeting August 9, 2012

Presented by:

Missouri Department of Health & Senior Services and the Agency for Toxic Substances & Disease Registry

# How can chemicals in groundwater enter a building?



#### Exposure

Potential Exposure from the Groundwater Contamination:

- Your tap water is not affected by this contamination and is safe for all household uses including drinking, washing, etc.
- The exposure of interest is inhalation of volatile chemicals (chemicals that readily evaporate into air) from the groundwater contamination.

# Potential Health Effects from Chemical Exposure

In general, exposure to a chemical does not necessarily mean that health effects will occur. Whether or not a person experiences health effects depends on several factors including:

- the toxicity and concentration of the chemical,
- the length and amount of exposure (short-term or acute versus long-term or chronic), and
- the health and sensitivity of the individual.

### Potential Health Effects from Chemical Exposure

- Vapor Intrusion the primary concern is low-level exposures over many years that can increase a person's risk of developing cancer or chronic disease.
- Chemicals in Everyday Life volatile chemicals are around us everyday in both indoor and outdoor air because of widespread use. These everyday exposures also contribute to potential health risks.

### Vapor Intrusion Sampling Results

Recent results show some vapor intrusion is occurring.

- The results show there are homes impacted with levels that are a potential concern for long-term exposure.
- The results DO NOT indicate an immediate health risk.

### Vapor Intrusion Sampling and Recommended Actions

- There were chemical detections in every home sampled
  additional sampling is already scheduled.
- A few of the homes had higher levels at this time, mitigation actions are only recommended for these few homes.
- Expanded sampling is recommended to include more homes.